

FIG.1

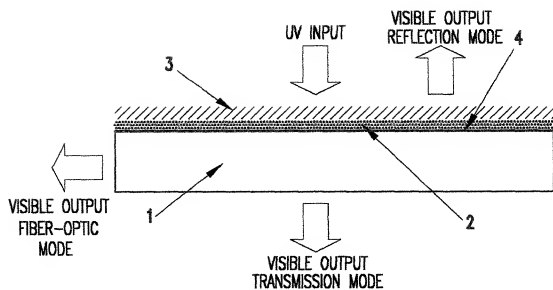


FIG.2A

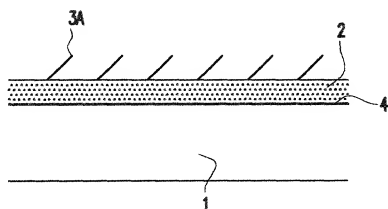


FIG.2B

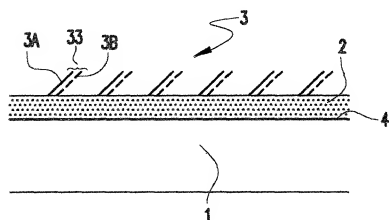


FIG.2C

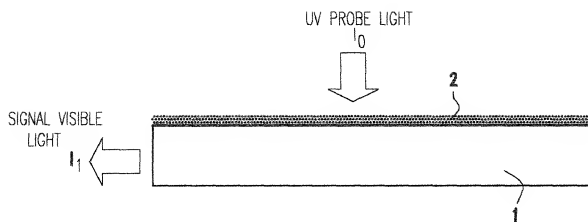


FIG.3A

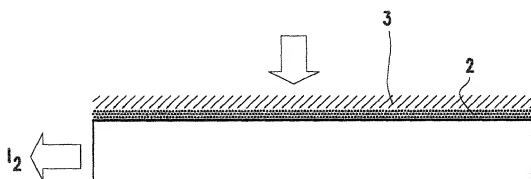


FIG.3B

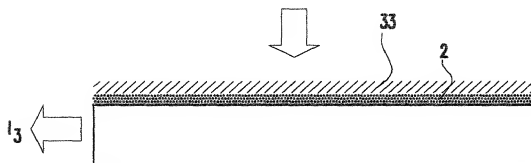
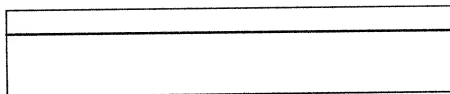


FIG.3C

FIG.4A

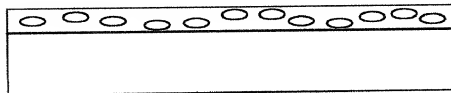


IN-SITU COMPOSITE



1. ION EXCHANGE
2. PARTICLE SYNTHESIS
3. SURFACE REGENERATION

FIG.4B

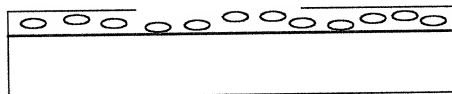


LITHOGRAPHY



1. SURFACE MODIFICATION AT SELECTED REGIONS

FIG.4C

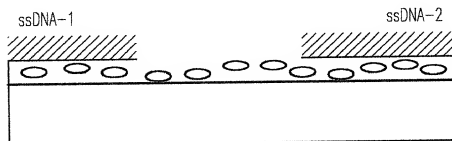


DNA GRAFTING



1. SELECTIVE ssDNA GRAFTING

FIG.4D



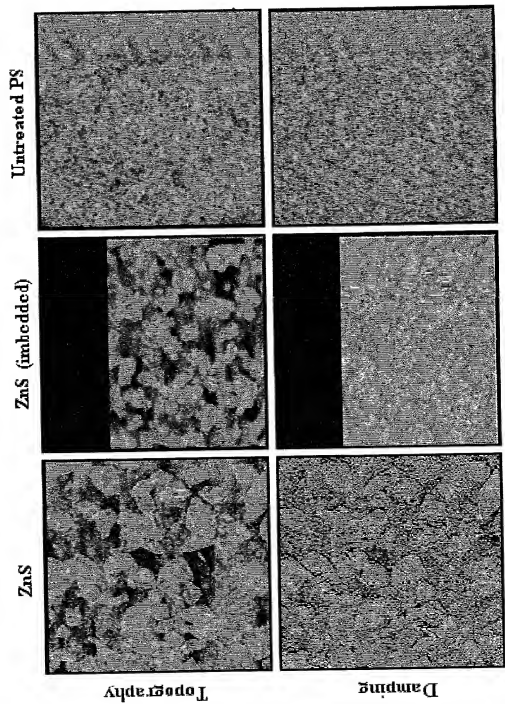


FIG.5

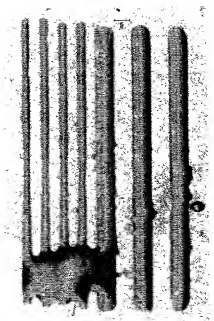
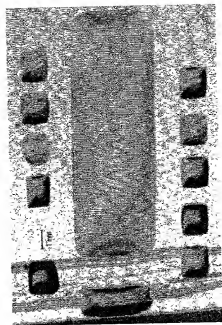


FIG. 6

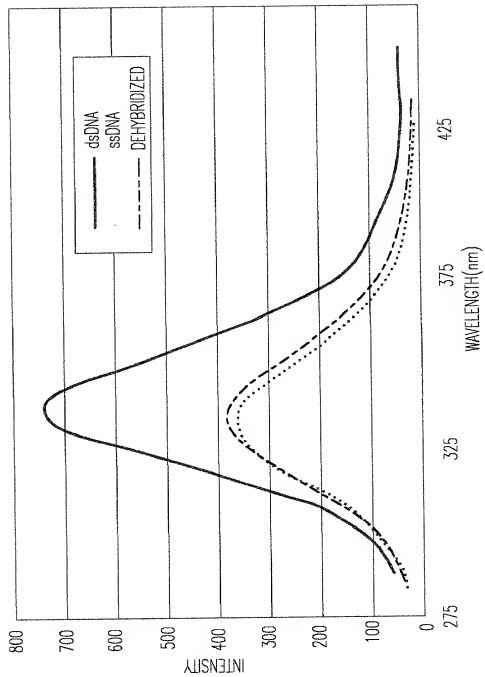


FIG.7

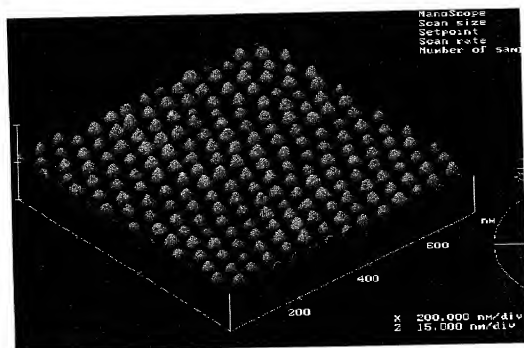


FIG.8

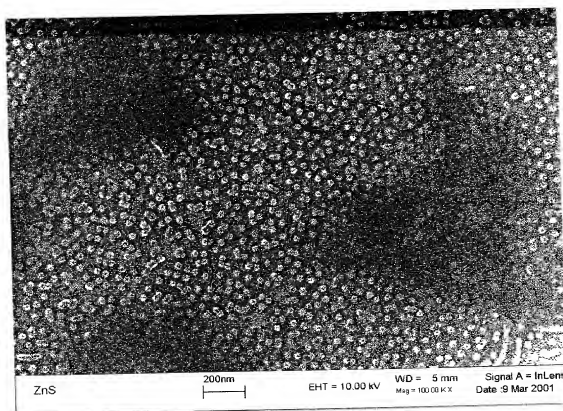


FIG.11



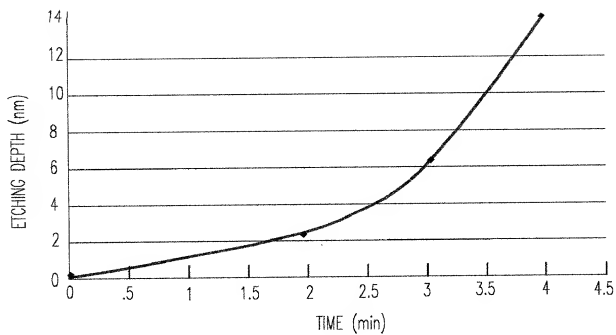


FIG.9

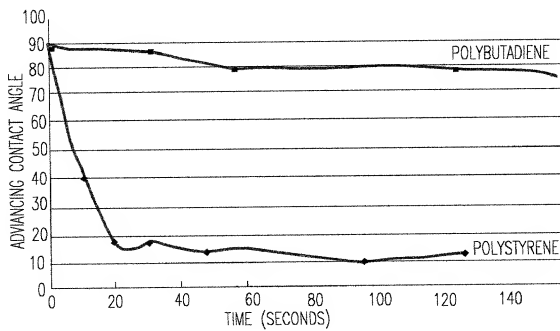


FIG.10



FIG.14A

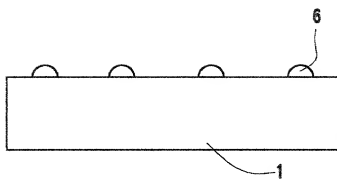


FIG.14B

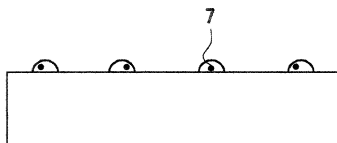
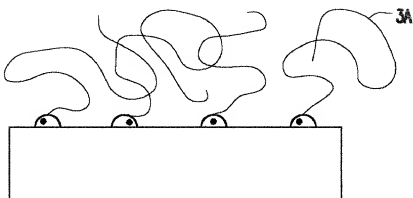


FIG.14C



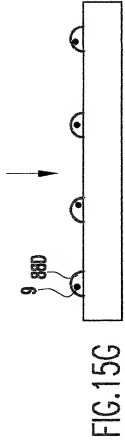
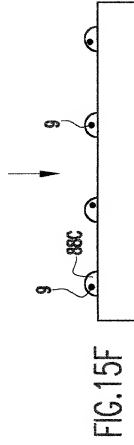
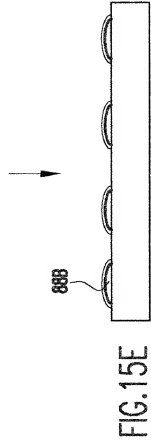
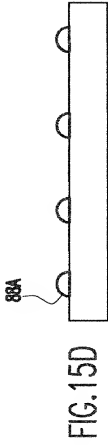
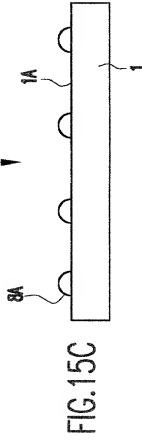
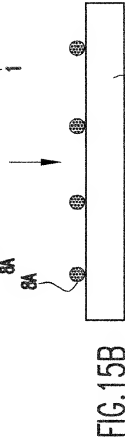
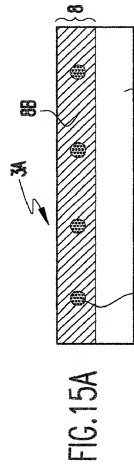


FIG.16A

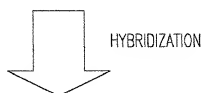
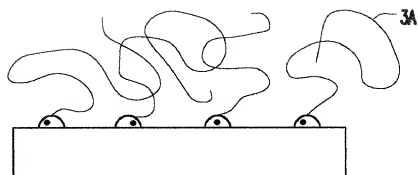


FIG.16B

